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### Removal of Metal Pollutants (Cd (II) and Cr (III)) from **Phosphoric Acid** Solutions by Chelating Resins Containing Phosphonic or Diphosphonic Groups†

N Kabay, M Demircio lu, H Ekincl, M Yuksel, ... - Ind. Eng. Chem. ..., 1998 - ACS Publications  
... In **fertilizer** industry waste, Cr(VI) is found to be between 20 and 30 mg/L, and it has ... This resin also had a very high affinity for Fe(III) and Cr(III) in very **acidic** solutions (Horwitz ... groups has been employed for the columnar sorption of Cd(II) and Cr(III) from **phosphoric acid** solution. ...

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### Water and materials recovery from **fertilizer** industry **acidic** effluents by membrane processes\*

AJ Karabelas, SG Yiantisios, Z Metaxiotou, N Andritsos, ... - Desalination, 2001 - Elsevier  
... it is considered necessary to add ions and is recycled into the **fertilizer** production a ... as ammoniumnitrate stream must include: a) cool is" with membranes resistant to **acidic** conditions. ... rejection of both ions, c) pretreatment by passing recycle it in **phosphoric acid** production, and ...

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### Kinetic modelling of cadmium removal from **phosphoric acid** by non-dispersive solvent extract

Al Alonso, AM Uriaga, S Zamacona, A Irabien, I ... - Journal of Membrane ..., 1997 - Elsevier  
... The stoichiometry of the reaction of cadmium extraction from **acidic** media by Cyanex 302 has been found to be ... [4] CA Hodge and NN Popovici (Eds.), Pollution Control in Phosphate **Fertilizer** Production, Marcel ... [5] Removing impurities to improve **phosphoric acid** quality: **acid** ...

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### Colorimetric determination of phosphorus as molybdivanadophosphoric **acid**

R Kilson, M Mellon - Industrial & Engineering Chemistry ..., 1944 - ACS Publications  
... should either be removed or inhibited to bring their concentrations within the limits set in Table I. Make the resulting solution just **acidic** to litmus ... **Phosphoric acid** obviously cannot be used to form the ferric phosphate complex. ... Determination of Potassium in **Fertilizer** Mixtures ...

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### Comparison of liquid membrane processes for the removal of cadmium from wet **phosphoric a**

AM Uriaga, A Alonso, I Ortiz, JA Daoud, SA El- ... - Journal of Membrane ..., 2000 - Elsevier  
... food production places the emphasis on developing effective and viable cadmium removal processes during the manufacture of **fertilizers**. ... characteristic of Cyanex 302 is the capacity to perform Cd(II) extraction from highly **acidic** media such as wet **phosphoric acid** (30% P ...

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### [CITATION] Responses of **acidic** and neutralized lakes near Sudbury, Ontario, to nutrient enrichi

ND Yan, C Lafrance - Environmental impacts of smelters, 1984 - J. Wiley & Sons Inc.

[Cited by 18](#) - [Related articles](#) - [All 2 versions](#)

### On the fractionation of natural radioactivity in the production of **phosphoric acid** by the wet **aci** method

JP Bolivar, R Garcia-Tenorio, M Garcia- ... - ... of Radioanalytical and ..., 1996 - akademai.com  
... I. Map of the estuary of the Tinto and Odiel rivers, where the **fertilizer** factories and the ... than one in the PG samples and clearly lower than one in **phosphoric acid** (dissolution), in ... These waters are very **acidic** (pH = 1.6-2), inducing the dissolution of some radionuclides contained ...

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### Influence of lime, **fertilizer** and manure applications on soil organic matter content and soil phy: conditions: a review

RJ Haynes, R Naidu - Nutrient Cycling in Agroecosystems, 1998 - Springer

... Phosphatic **fertilizers** and **phosphoric acid** can favour aggregation by the formation of Al or Ca phosphate binding agents whilst where **fertilizer**  $\text{NH}_4^+$  accumulates in ... Additions of **phosphoric acid** can increase aggregate stability where other phosphatic **fertilizers** have no effect. ...

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### Recovery of uranium from wet-process **phosphoric acid**

FJ Hurst, DJ Crouse, KB Brown - Industrial & Engineering Chemistry, 1972 - ACS Publications

... During the intervening years the phosphate **fertilizer** industry has grown rapidly, and the amount of  $\text{U}_3\text{O}_8$  dissolved in Florida's wet-process **phosphoric acid** has been estimated as presently approaching 2000 tons annually (Keiinedy, 1967). ...

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### Determination of equivalent acidity and basicity of **fertilizers**

WH Pierre - Industrial & Engineering Chemistry Analytical, 1933 - ACS Publications

... must be considered: Only one-third of the **phosphoric acid** should be considered 1. **acid**-forming. Since nitrogen in **fertilizers** is either in the nitrate form or in a form which is changed to nitrates through the process of nitrification. it should be considered an **acidic** element. ...

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[Monocalcium phosphate - Wikipedia, the free encyclopedia](#)

Triple **superphosphate** is a **fertilizer** produced by the action of concentrated **phosphoric acid** on ground phosphate rock.  $\text{Ca}_3(\text{PO}_4)_2(\text{s}) + 4 \text{H}_3\text{PO}_4(\text{aq}) \rightarrow 3 \text{Ca} \dots$

[en.wikipedia.org/wiki/Monocalcium\\_phosphate](http://en.wikipedia.org/wiki/Monocalcium_phosphate) - [Cached](#) - [Similar](#)

[Understanding Phosphorus Fertilizers](#)

**Fertilizers** that use white **phosphoric acid** as the P source are generally more ...

**Superphosphate** (OSP), 0, 21, 20, 85. Concentrated **Superphosphate** (CSP), 0 ...

[www.extension.umn.edu/distribution/.../dc6288.html](http://www.extension.umn.edu/distribution/.../dc6288.html) - [Cached](#) - [Similar](#)

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jection. **Superphosphate** is the chief material supplying **phosphoric acid** in **fertilizers**, and may be considered the basis of the modern **fertilizer** industry. ...

[turf.lib.msu.edu/1920s/1929/2907124.pdf](http://turf.lib.msu.edu/1920s/1929/2907124.pdf) - [Similar](#)

[FERTILIZERS-TYPES OF FERTILIZERS-PHOSPHATIC FERTILIZER-SUPER ...](#)

There are two important phosphoric **fertilizers**. **Super phosphate** ... Rock phosphate is decomposed by **phosphoric acid** to produce triple phosphate. ...

[www.citycollegiate.com/industry1.htm](http://www.citycollegiate.com/industry1.htm) - [Cached](#) - [Similar](#)

[The Hidden Truth About Commercial Phosphate Fertilizers.](#)

To make 0-46-0, rock phosphate is treated with **phosphoric acid**. With this, much higher phosphate content, much higher N-P-K **fertilizer** formulas can be made. ...

[www.malcolmbeck.com/.../phosphates-problemsandsolutions.htm](http://www.malcolmbeck.com/.../phosphates-problemsandsolutions.htm) - [Cached](#)

[superphosphate: Definition from Answers.com](#)

Triple-**superphosphate** is made by using **phosphoric(V) acid** in place of sulphuric **acid**; ...

Impacts of **superphosphate fertilizer** to the environment? ...

[www.answers.com/topic/superphosphate](http://www.answers.com/topic/superphosphate) - [Cached](#) - [Similar](#)

[Types of fertilizer](#)

The greatest advantage to be had of using **Superphosphate** as a **fertilizer** is that the **phosphoric acid** is fully water soluble, but when **Superphosphate** is ...

[www.landscape-and-garden.com/garden.../fertilizer-types.aspx](http://www.landscape-and-garden.com/garden.../fertilizer-types.aspx) - [Cached](#) - [Similar](#)

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Normal **superphosphate fertilizer** contains between 15 and 21 percent P<sub>2</sub>O<sub>5</sub>. ...

phosphate (NH<sub>4</sub>H<sub>2</sub>PO<sub>4</sub>) is produced by reacting **phosphoric acid** (H<sub>3</sub>PO<sub>4</sub>) with ...

[www.ecy.wa.gov/programs/air/pdfs/fertil3.pdf](http://www.ecy.wa.gov/programs/air/pdfs/fertil3.pdf) - [Similar](#)

[single super phosphate fertilizer - single super phosphate ...](#)

16% Single **Super Phosphate fertilizer** 1,Valid P<sub>2</sub>O<sub>5</sub>:16.0% 2,Calcium:19-25% 3,Free **Phosphoric acid**:4.50% 4,Moisture:3.0%... Min. Order: 20 Metric Tons ...

[www.alibaba.com/showroom/single\\_super\\_phosphate\\_fertilizer.html](http://www.alibaba.com/showroom/single_super_phosphate_fertilizer.html) - [Cached](#)

[Distribution of uranium in the production of triple superphosphate ...](#)

by E. Erdem - 1995 - [Cited by 6](#) - [Related articles](#)

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